

WHAT IS CLAIMED IS:

1. A heat exchanger for cooling air comprising:

tubes through which fluid flows, wherein the tubes are arranged vertically;

fins provided between the tubes; and

a header tank connected to bottom ends of the tubes, wherein the header tank is formed with drains, which are depressions, at positions between the tubes, wherein the drains downwardly direct water that accumulates between the tubes.

2. The heat exchanger according to claim 1, wherein each of the drains narrows toward its bottom.

3. The heat exchanger according to claim 1, wherein a bottom of each of the drains slopes downward from its air upstream position toward its air downstream position.

4. The heat exchanger according to claim 1, wherein a bottom of each of the drains slopes downward in a direction away from the tubes.

5. The heat exchanger according to claim 1, wherein the drains have substantially diamond shapes when viewed in a direction substantially parallel to longitudinal directions of the tubes.

6. The heat exchanger according to claim 1, further comprising:

a member defining a surface for facilitating drainage of water, wherein the member is disposed such that the surface is opposed to the header tank and spaced from ends of the drains by a predetermined distance.

7. The heat exchanger according to claim 6, wherein the predetermined distance is in a range between equal to or greater than 0 mm and equal to or less than 1.0 mm.

8. The heat exchanger according to claim 1, wherein a minimum distance between the fin and the header tank is in a range between equal to or greater than 0 mm and equal to or less than 1.0 mm.

9. The heat exchanger according to claim 1, wherein the header tank has a first radius of curvature on a side adjacent to the tubes and a second radius of curvature on a side opposite to the tubes, wherein the first radius is larger than the second radius.

10. The heat exchanger according to claim 1, wherein the fluid is refrigerant.